U. S. Appl. No. 10/635,382 Attorney Docket No. 1999B062A Reply to Office Action of November 13, 2006 Response dated December 12, 2006



IN THE CLAIMS:

Please amend the claims as follows:

- 1. (Previously presented) An inner tube comprising a blend comprising:
 - at least 15 parts per hundred rubber halogenated isobutylene-coalkylstyrene polymer; and
 - a second rubber component, wherein the halogen is present from 0.1 to 3.0 mol% relative to the total amount of the polymer.
- 2. (Original) The inner tube of Claim 1, wherein the halogenated isobutylene-co-alkylstyrene is brominated isobutylene-co-methylstyrene polymer.
- 3. (Original) The inner tube of Claim 1, wherein the halogenated isobutylene-co-alkylstyrene is brominated isobutylene-co-paramethylstyrene polymer.
- 4. (Cancelled)
- 5. (Original) The inner tube of Claim 1, comprising at least 25 parts per hundred rubber halogenated isobutylene-co-alkylstyrene polymer.
- 6. (Original) The inner tube of Claim 1, comprising at least 40 parts per hundred rubber halogenated isobutylene-co-alkylstyrene polymer.
- 7. (Cancelled)
- 8. (Original) The inner tube of Claim 1, further comprising a cure package.
- 9. (Original) The inner tube of Claim 8, further comprising a vulcanizing agent, a retarder, a filler, or blends thereof.
- 10. (Previously presented) The inner tube of Claim 1, wherein the second rubber component is selected from the group consisting of natural rubber, polyisoprene rubber, poly(styrene-co-butadiene) rubber (SBR), polybutadiene rubber (BR), poly(isoprene-co-butadiene) rubber (IBR), styrene-isoprene-butadiene rubber

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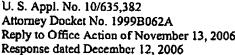
- (SIBR), polysulfide, nitrile rubber, propylene oxide polymers, and semicrystalline copolymer (SCC).
- 11. (Previously presented) The inner tube of Claim 1, wherein the halogen is bromine.
- 12. (Previously presented) The inner tube of Claim 1, wherein the halogen is chlorine.
- 13. (Previously presented) An inner tube comprising a blend comprising:
 - at least 15 parts per hundred rubber halogenated isobutylene-comethylstyrene polymer; and
 - a second rubber component, wherein the halogen is present from 0.1 to 3.0 mol% relative to the total amount of the polymer.
- 14. (Previously presented) The inner tube of Claim 13, where the second rubber component is selected from the group consisting of natural rubber, polyisoprene rubber, poly(styrene-co-butadiene) rubber (SBR), polybutadiene rubber (BR), poly(isoprene-co-butadiene) rubber (IBR), styrene-isoprene-butadiene rubber (SIBR), polysulfide, nitrile rubber, propylene oxide polymers, and semi-crystalline copolymer (SCC).
- 15. (Previously presented) The inner tube of Claim 13, wherein the halogenated isobutylene-co-methylstyrene polymer is brominated isobutylene-co-methylstyrene polymer.
- 16. (Previously presented) The inner tube of Claim 13, wherein the halogenated isobutylene-co-methylstyrene polymer is brominated isobutylene-co-paramethylstyrene polymer.
- 17. (Previously presented) The inner tube of Claim 13, wherein the second rubber component is an isobutylene-based rubber.
- 18. (Original) The inner tube of Claim 17, wherein the isobutylene based rubber comprises at least 80 weight % isobutylene.
- 19. (Cancelled)

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- 20. (Previously presented) The inner tube of Claim 13, comprising at least 25 parts per hundred rubber halogenated isobutylene-co-methylstyrene polymer.
- 21. (Previously presented) The inner tube of Claim 13, comprising at least 40 parts per hundred rubber halogenated isobutylene-co-methylstyrene polymer.
- 22. (Cancelled)
- 23. (Original) The inner tube of Claim 13, wherein the blend further comprises a cure package.
- 24. (Original) The inner tube of Claim 23, wherein the blend further comprises a vulcanizing agent, a retarder, a filler, or blends thereof.
- 25. (Previously presented) The inner tube of Claim 13, wherein the halogen is present from 0.25 to 2.0 mol% relative to the total amount of the polymer.
- 26. (Original) The inner tube of Claim 25, wherein the halogen is bromine.
- 27. (Original) The inner tube of Claim 25, wherein the halogen is chlorine.
- 28. (Previously presented) A tire assembly comprising:
 - a) a tire; and
 - b) an inner tube comprising a blend comprising at least 15 parts per hundred rubber halogenated isobutylene-co-alkylstyrene polymer; and a second rubber component, wherein the halogen is present from 0.1 to 3.0 mol% relative to the total amount of the polymer.
- 29. (Original) The tire assembly of Claim 28, wherein the halogenated isobutylene-co-alkylstyrene polymer is brominated isobutylene-co-methylstyrene polymer.
- 30. (Original) The tire assembly of Claim 28, wherein the halogenated isobutylene-co-alkylstyrene polymer is brominated isobutylene-co-paramethylstyrene polymer.

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- 31. (Original) The tire assembly of Claim 28, wherein the blend further comprises ethylene-propylene-diene rubber (EPDM).
- 32. (Previously presented) The tire assembly of Claim 28, wherein the second rubber component is selected from the group consisting of natural rubber, polyisoprene rubber, poly(styrene-co-butadiene) rubber (SBR), polybutadiene rubber (BR), poly(isoprene-co-butadiene) rubber (IBR), styrene-isoprene-butadiene rubber (SIBR), polysulfide, nitrile rubber, propylene oxide polymers, and semicrystalline copolymer (SCC).
- 33. (Previously presented) The tire assembly of Claim 28, wherein the second rubber component comprises isobutylene-based rubber.
- 34. (Previously presented) The tire assembly of Claim 33, wherein the isobutylenebased rubber comprises a copolymer of isobutylene/isoprene.
- 35. (Previously presented) The tire assembly of Claim 28, wherein the halogen is present from 0.2 to 2.0 mol% relative to the total amount of polymer.
- 36. (Original) The tire assembly of Claim 35, wherein the halogen is bromine.
- 37. (Original) The tire assembly of Claim 35, wherein the halogen is chlorine.
- 38. (Previously presented) The inner tube of Claim 1, wherein the second rubber component is selected from the group consisting of halogenated star-branched butyl rubber, brominated butyl rubber, chlorinated butyl rubber, star-branched butyl (polyisobutylene/isoprene copolymer) rubber, star-branched halogenated (brominated or chlorinated) butyl (polyisobutylene/isoprene copolymer) rubber. poly(isobutylene-co-methylstyrene), and halogenated poly(isobutylene-comethylstyrene).
- 39. (Previously presented) The inner tube of Claim 13, wherein the second rubber component is selected from the group consisting of halogenated star-branched butyl rubber, brominated butyl rubber, chlorinated butyl rubber, star-branched butyl (polyisobutylene/isoprene copolymer) rubber, star-branched halogenated

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(brominated or chlorinated) butyl (polyisobutylene/isoprene copolymer) rubber, poly(isobutylene-co-methylstyrene), and halogenated poly(isobutylene-co-methylstyrene).

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40. (Previously presented) The tire assembly of Claim 28, wherein the second rubber component is selected from the group consisting of halogenated star-branched butyl rubber, brominated butyl rubber, chlorinated butyl rubber, star-branched butyl (polyisobutylene/isoprene copolymer) rubber, star-branched halogenated (brominated or chlorinated) butyl (polyisobutylene/isoprene copolymer) rubber, poly(isobutylene-co-methylstyrene), and halogenated poly(isobutylene-co-methylstyrene).